

6. The Paths Traversed by Life

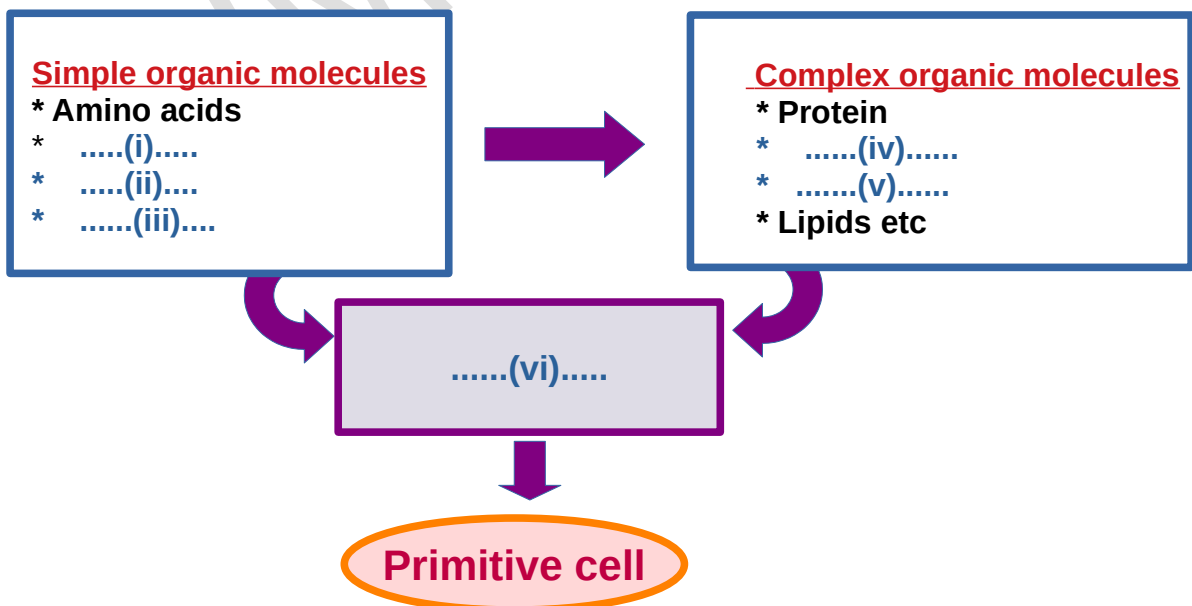
1.

Life is originated in the primitive earth as
A result of chemical evolution that took
place in the oceans.

Analyse the statement and answer the following questions.

- a. What is chemical evolution ?
- b. Who are the proponents of this theory ?
- c. Which are the gases present in the atmosphere of primitive earth ?
- d. Name the source of energy that led to the chemical reaction of these gases.
- e. Complete the following flow chart showing the steps of chemical evolution.

Condensation of water vapour present in the atmosphere
And the resulting incessant rain led to the formation of oceans.



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2. “ Finches were one among the organisms observed and closely studied by Darwin in the Galapagos Islands.”

Analyse the illustration showing the different types of finches and answer the following questions.



- Which peculiarity of the finches did he consider for his studies?
- How did the variation occur and what was the result of the accumulation of these variations through generations?
- Whose ideas were also incorporated by Darwin to formulate the **Theory of Natural selection** ?
- Give the name of the text book in which he published his theory?

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3. Complete the flow chart based on the principles of Darwin's Natural selection theory.

